

# CASE STUDY

Green Business is Good Business

# GREENERFUTURES

## *By-product Synergy in Western*

### *Newfoundland Case Summary*

Businesses in Western Newfoundland have been participating in by-product synergy for decades. The following industries have been involved:

#### Pulp and Paper

Through the paper making process, Corner Brook Pulp and Paper Limited (CBPPL) produces by-products such as bark, ash, sludge from the effluent treatment plant, treated effluent, and waste heat. In 2003 the mill installed the province's first biomass cogeneration unit. This unit produces steam required by the mill and electricity using biomass and process residues. It saves the company money and reduces their environmental impact by decreasing fossil fuel consumption, greenhouse gas emissions, the volume of biomass sent to the landfill, and by providing electricity to the grid. Other opportunities have been identified such as using the excess capacity of the biomass cogeneration unit in a district energy system and recapturing heat from the treated effluent.

CBPPL, the City of Corner Brook, the Department of Environment and Conservation and the Centre of Environmental Excellence have now formed a partnership to evaluate the feasibility of a district energy system in Corner Brook.

#### Fish Processing

In the Bay of Islands area there are 3 fish plants disposing of approximately 1400 tonnes of fish waste per year. There are many environmentally acceptable alternatives for the disposal of fish and shellfish waste. It can be used in fish and animal feed, as a fertilizer, and as a nitrogen source in composting operations. This opportunity was seized by Hi-Point Industries, formerly Genesis Organic, in its production of high quality soil and compost products.

#### Gypsum

In addition to these material exchanges, Lafarge Gypsum also supplies CBPPL with stucco for use in its paper making process.

#### *Benefits*

**Business**—Reduced energy and waste costs, cheaper raw materials due to local supply.

**Environment**—Reduced pollution from material and waste transport

**Customer**—Access to local products which have a reduced environmental impact

**Community** – Reduced landfill and pollution. More profitable businesses will benefit the local economy.

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